

CONDOR / RLM 178 Roller Mower

Specifications #A – 08/2017



Model	CONDOR 178 Roller mower. (Stock Code HS-RLM178)
Tractor Power	Min: 25kW (30hp). Max: 55kW (75hp). Recommended tractor engine power. (540rpm PTO.)
Mounting	Category 1 clevis hitch, (Cat 1 & 2 pins on lower linkage), three point linkage. Central mounting. Pivoting topmast and chain backstays.
Drive Shaft	Series 4 (Cross 27 x 74.6mm) with tri-lobal sliding shaft sections.
Gearbox	Ratio 1 : 3
Belt Drive	2 x B Section Vee Belts. Drive pulley – 315mm PCD. Driven / Spindle pulleys 190mm PCD.
Tensioners	Manually adjusted idlers.
Drive Guards	Standard guarded PTO shaft and transmission drive belts fully enclosed / covered by stainless guards.
Blade Spindles	3 off spindles. 35mm shaft. Bearings: NTN 6207 – sealed / no greasing required. (S2 Spindle version with 6307 bearings expected late 2017 on.)
Cutting Heads	Blade Beams: 100 x 8 spring steel. Blades: 102 x 65 x 5mm secured with 12mm fixings. Cutting head geometry: Diameter 612mm, lateral spacing 586mm giving nominal 26mm overlap.
Blade Tip Speed	86m/s (16,942 ft/min)
Cutting Height	Nominally 0 – 100mm. (Note: Based on experience 35mm is lowest expected required.)
Body	Fabricated from 4mm shell with 6, 8, 10 & 12mm thick structural sections as necessary. Hot dip galvanized with spindle mounts welded in after on jig to ensure cutting height alignment. The body includes a 25mm opening immediately above the shell, front and rear to allow easy exit / removal of debris from the belt drive chamber area.
Debris Guarding	Front: Full width roller. Rear: Full width roller plus conveyor belt debris guard such that all material exits downwards.
Height Control	Adjusted on skids / roller supports.
Rollers	168 OD x 5mm wall with 35mm roller axles supported in taper-lock 2 bolt transmission bearings with SG Iron housings.

Dimensions	CONDOR 178	Notes / comments
Cutting Width	1780mm	5' 10"
Transport Width	1910mm	Overall width.
Length Overall	1341mm	
Weight	460kg	Calculated weight from CAD.

CONDOR / RLM 237 Roller Mower

Specifications #A – 08/2017



Model	CONDOR 237 Roller mower. (Stock Code HS-RLM237)
Tractor Power	Min: 30kW (45hp). Max: 72kW (95hp). Recommended tractor engine power. (540rpm PTO.)
Mounting	Category 2 clevis hitch, (Cat 1 & 2 pins on lower linkage), three point linkage. Central mounting. Slotted top link provides float for contour following when working and has a manual transport lock to fix the top link pin position. (The transport lock prevents bounce up and harsh drop of machine whilst being transported between jobs.)
Drive Shaft	Series 6 (Cross 30.2 x 92mm) with tri-lobal sliding shaft sections.
Gearbox	Comer TV-311H. Ratio 1 : 3
Belt Drive	4 x B Section Vee Belts. Drive pulley – 315mm PCD. Driven / Spindle pulleys 190mm PCD.
Tensioners	Manually adjusted idlers.
Drive Guards	Standard guarded PTO shaft and transmission drive belts fully enclosed / covered by stainless guards.
Blade Spindles	4 off spindles. 35mm shaft. Bearings: NTN 6207 – sealed / no greasing required. (S2 Spindle version with 6307 bearings expected late 2017 on.)
Cutting Heads	Blade Beams: 100 x 8 spring steel. Blades: 102 x 65 x 5mm secured with 12mm fixings. Cutting head geometry: Diameter 612mm, lateral spacing 586mm giving nominal 26mm overlap.
Blade Tip Speed	86m/s (16,942 ft/min)
Cutting Height	Nominally 0 – 100mm. (Note: Based on experience 35mm is lowest expected required.)
Body	Fabricated from 4mm shell with 6, 8, 10 & 12mm thick structural sections as necessary. Hot dip galvanized with spindle mounts welded in after on jig to ensure cutting height alignment. The body includes a 25mm opening immediately above the shell, front and rear to allow easy exit / removal of debris from the belt drive chamber area.
Debris Guarding	Front: Full width roller. Rear: Full width roller plus conveyor belt debris guard such that all material exits downwards.
Height Control	Adjusted on skids / roller supports.
Rollers	168 OD x 5mm wall with 35mm roller axles supported in taper-lock 2 bolt transmission bearings with SG Iron housings.

Dimensions	CONDOR 237	Notes / comments
Cutting Width	2370mm	7' 9"
Transport Width	2496mm	Overall width.
Length Overall	1487mm	
Weight	800kg	Approx. weight

CONDOR / RLM 350 Roller Mower

Specifications #B – 08/2017



Model	CONDOR 350 Roller Mower. (Stock Code HS-RLM350)
Tractor Power	Min: 55kW (75hp). Max: 83kW (110hp). Recommended tractor engine power. (540rpm PTO.)
Mounting	Category 2, clevis hitch, three point linkage. Central mounting. Slotted top link provides float for contour following when working and has a manual transport lock to fix the top link pin position. (The transport lock prevents bounce up and harsh drop of machine whilst being transported between jobs.)
Drive Shaft	Series 6 (Cross 30.2 x 92mm) with tri-lobal sliding shaft sections.
Gearbox	Comer TV-311H. Ratio 1 : 3
Belt Drive	4 x B Section Vee Belts. Drive pulley – 280mm PCD. Driven / Spindle pulleys 190mm PCD.
Tensioners	Manually adjusted idlers.
Drive Guards	Standard guarded PTO shaft and transmission drive belts fully enclosed / covered by stainless guards.
Blade Spindles	S2 Spindle: 5 off spindles. 35mm shaft. Bearings: NTN 6307 – sealed / no greasing required. (Earlier units with 6207 bearing.)
Cutting Heads	Blade Beams: 100 x 8 spring steel. Blades: 102 x 65 x 5mm secured with 12mm fixings. Cutting head geometry: Diameter 718mm, lateral spacing 692mm giving nominal 26mm overlap.
Blade Tip Speed	92m/s (18,050 ft/min)
Cutting Height	Nominally 0 – 100mm. (Note: Based on experience 35mm is lowest expected required.)
Cutting Profile	Flat to blade tips outermost on wings raised 76mm. (No wing down-float on RLM350.)
Body	Fabricated from 4mm shell with 6, 8, 10 & 12mm thick structural sections as necessary. Hot dip galvanized with spindle mounts welded in after on jig to ensure cutting height alignment. The body includes a 25mm opening immediately above the shell, front and rear to allow easy exit / removal of debris from the belt drive chamber area. Centre body section contains gearbox and 3 spindles / cutting heads, wings carry 1 spindle each.
Wing Pivots	Two diameter 35mm pins with 2 x 30mm wide bearings on each. Grease lubricated.
Hydraulics	Wings raised / lowered by hydraulic cylinders. 2" bore x 8" stroke. Hydraulic controls include a solenoid lock-out valve to prevent accidental lowering of wings, primarily whilst being transported on roads. (Tractor hydraulics and solenoid control must be activated simultaneously to lower wings from transport to working position.)
Debris Guarding	Front: Full width 8mm chain curtain guards. Rear: Full width rollers plus conveyor belt debris guard such that all material exits downwards.
Height Control	Single front roller – 870mm wide. Full width rear rollers. 1 on centre body and 1 on each wing.
Rollers	168 OD x 5mm wall with 35mm roller axles supported in taper-lock 2 bolt transmission bearings with SG Iron housings.

Dimensions

	CONDOR 350	Notes / comments
Cutting Width	3486mm	11' 5'
Transport Width	2360mm	Approx. Varies with cutting height.
Length Overall	1530mm	Hitch pin to back of rear debris guard.
Weight	1095kg	-